

TITLE OF THE INVENTION

LDPC (Low Density Parity Check) coded modulation hybrid decoding using non-Gray code maps for improved performance

CROSS REFERENCE TO RELATED PATENTS/PATENT APPLICATIONS

5 The present U.S. Utility Patent Application claims priority pursuant to 35 U.S.C. § 119(e) to the following U.S. Provisional Patent Applications which are hereby incorporated herein by reference in their entirety and made part of the present U.S. Utility Patent Application for all purposes:

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- 10 1. U.S. Provisional Application Serial No. 60/478,690, "Coded modulation with LDPC (Low Density Parity Check) code using variable maps and metric updating," (~~Attorney Docket No. BP3036~~), filed June 13, 2003 (06/13/2003), pending.
 2. U.S. Provisional Application Serial No. 60/490,967, "LDPC (Low Density Parity Check) coded modulation symbol decoding," (~~Attorney Docket No. BP3089~~), filed July 29, 2003 (07/29/2003), pending.
 - 15 3. U.S. Provisional Application Serial No. 60/519,457, "LDPC (Low Density Parity Check) coded modulation hybrid decoding," (~~Attorney Docket No. BP3134~~), filed November 12, 2003 (11/12/2003), pending.
 - 20 4. U.S. Provisional Application Serial No. 60/548,971, "LDPC (Low Density Parity Check) coded modulation hybrid decoding using non-Gray code maps for improved performance," (~~Attorney Docket No. BP3134CIP~~), filed March 1, 2004 (03/01/2004), pending.

The present U.S. Utility Patent Application is also a continuation-in-part of U.S. Utility Patent Application Serial No. 10/723,574, entitled "LDPC (Low Density Parity Check) coded modulation hybrid decoding," (~~Attorney Docket No. BP3134~~),
25 filed November 26, 2003 (11/26/2003), pending, which is hereby incorporated herein by reference in its entirety and made part of the present U.S. Utility Patent Application for all purposes.

BACKGROUND OF THE INVENTION

TECHNICAL FIELD OF THE INVENTION

30 The invention relates generally to communication systems; and, more particularly, it relates to decoding of signals within such communication systems.